

Latest NewsTechnology and Digital Trends

The world is undergoing a rapid transformation, driven by cutting-edge technologies such as Artificial Intelligence (AI), Post-Quantum Cryptography (PQC), Blockchain Technology, Rust, and Python.

These technologies are having a profound impact on the way we operate and deliver services to our customers. They are also changing the way we work and interact with each other.

You can find below a selection of articles that I have written over the years on these topics.

Our Stories

Image of Colourful, abstract digital art of a cat

Le Chat by Mistral AIA New Era in Conversational AI

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Explore Google's Gemma AI ModelAn open-source project offering ethical AI solutions for both personal and enterprise use.

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Abstract visualisation of AI networks, representing Gemini 1.5's capabilities

Unlocking Gemini 1.5Google's AI Revolution Explained

Explore Gemini 1.5, Google's AI breakthrough, enhancing efficiency, quality, and

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A person sitting on black bench reading newspaper

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by Sebastien Rousseau (13 Feb 2024)

Delve into the EU's Artificial Intelligence Act, a revolutionary framework setting global standards for ethical AI development and usage.

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A white, spherical modern device

Àkàndé Voice Assistant, A Personal and Executive Assistance

by Sebastien Rousseau (12 Feb 2024)

Discover how Àkàndé leverages OpenAI GPT's natural language understanding, PDF summaries, and efficient caching to redefine personal and executive assistance.

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A robotic woman with butterflies and flowers

Revolutionising AdvertisingHow AI Shapes the Future

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Explore how AI transforms advertising with insights on Amazon's Rufus and Meta's latest developments. Discover the impact on consumer engagement.

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A minimalist, modern corporate office

AI-Powered Speech Analysis, Translation, & Insight Tool

by Sebastien Rousseau (29 Jan 2024)

Explore how Audio Analyser, transforms speech-to-text conversion, text analysis, and translations for actionable insights.

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Man analysing data on screens

by Sebastien Rousseau (23 Jan 2024)

Explore the 2024 advancements in AI Prompt Engineering, uncovering innovative trends and techniques revolutionising tech and finance sectors.

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Alien Studio My Tech-to Art Journey in Photography

A Sunset's muse, a serene glance; beauty in stillness

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A Quantum Computer Room

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Explore how IBM Qiskit and Quantum Fourier Transform revolutionise credit ratio analysis in finance, offering unprecedented accuracy and speed.

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A Circuit Board Cityscape

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Exploring 2023's Technological Landscape AI & Quantum Computing Revolutionising Banking, Rising Open-Source Models, and Evolving Regulations & Governance.

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Quantum Key Distribution Revolutionising Security in Banking

An HSBC Headquarter in London Canary Wharf Docks

by Sebastien Rousseau (11 Dec 2023)

As quantum computers pose a threat to traditional encryption methods, Quantum Key Distribution (QKD) emerges as a game-changer, offering unparalleled security.

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Efficient Date and Time Management with DateTime (DTT)

A DTT Logo

by Sebastien Rousseau (04 Dec 2023)

DateTime (DTT) is a comprehensive Rust library for parsing, validating, manipulating, and formatting dates and times. It offers a high level of precision and a wide range of functionalities.

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KyberLibA Rust-Powered Shield Against Quantum Threats

A KyberLib Logo

by Sebastien Rousseau (28 Nov 2023)

A Robust and Quantum-Safe Cryptography Implementation of the CRYSTALS-Kyber Algorithm, to Protect Your Data from Quantum Threats and Cryptanalytic Attacks.

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CRYSTALS-KyberThe Safeguarding Algorithm in a Quantum Age

A complex quantum computer architecture

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Discover how CRYSTALS-Kyber, a quantum-resistant cryptography algorithm, is revolutionising the world of cryptography and preparing us for the quantum era.

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Exploring Generative AI Shaping the Future of Technology

Holographic cubes at a concert.

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Embark on a Journey to Explore Generative AI Investigating Its Impact, Ethical Implications, and Future Synergies.

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Mathematical and Cryptographic Constants for Rust Security

A Mathematical and Cryptographic Constants

by Sebastien Rousseau (05 Nov 2023)

Safeguard code integrity with meticulously vetted mathematical and cryptographic constants, bolstering memory and concurrency safety for enhanced code security.

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Streamlining Rust Library Development with Code Generation

A White Building

by Sebastien Rousseau (26 Oct 2023)

Boost Rust library development with LibMakeA code generator tool that enforces best practices and generates initial code, saving developers time and effort.

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Protecting Data in the Quantum Age The Hash Library (HSH)

A creative illustration on Quantum computing theme

by Sebastien Rousseau (16 Oct 2023)

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Shokunin, the fastest Rust-based Static Site Generator (SSG)

A Turned off laptop computer on top of a white table

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A very tall building that has a lot of holes in it

by Sebastien Rousseau (29 Sep 2023)

Streamlining the creation and compliance of ISO20022 Payment Messages for cross-border payments and reporting.

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Ethereum Token InterfaceUnderstanding ERC-20, which allows for the implementation of a standard API for tokens within smart contracts.

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Building a Cryptocurrency on the Ethereum BlockchainA Comprehensive Guide to Blockchain Development, Tokenization and Cryptocurrency Implementation.

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Horizontal view of a tall building

by Sebastien Rousseau (02 Jan 2018)

A story of the extraordinary journey of securing digital transactions through Private-key Cryptography and Peer-to-peer (P2P) networks.

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Physical Bitcoins

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